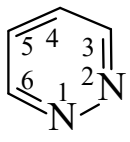
>>**Entry Name: Pyridazine,** 9CI
**Synonym(s):** 1,2-Diazine. Orthodiazine. 1,2-Diazabenzene. Oiazine (obsol.)



**CAS Registry Number:** 289-80-5

**Molecular Formula:** $C_4H_4N_2$
**Molecular Weight:** 80.089
**Accurate Mass:** 80.037448
**Percentage Composition:** C 59.99%; H 5.03%; N 34.98%
**Physical Description:** Liq.
**Boiling Point:** $Bp_{14}$ 87°
**Solubility:** V. sol. $H_2O$; sol. EtOH, $Et_2O$, $C_6H_6$; insol. petrol
**Density:** $d_4^{20}$1.105
**pKa Value:** p$K_{a1}$ 2.24; p$K_{a2}$ –7.1 (20°)
**Refractive Index:** $n_D^{23.5}$1.5231

**Aldrich:** P5720-4
**Fluka:** 82680

>>**Derivative:** Hydrochloride

**Physical Description:** Yellow solid
**Melting Point:** Mp 161-163°

>>**Derivative:** Picrate

**Physical Description:** Yellow needles ($H_2O$ or EtOH)
**Melting Point:** Mp 169 dec.°

>>**Derivative:** Methiodide

**Physical Description:** Yellow hygroscopic needles (2-propanol)
**Melting Point:** Mp 95-96 dec.°

>>**Derivative:** 1-Oxide
**Synonym(s):** Pyridazine *N*-oxide

**CAS Registry Number:** 1457-42-7
**Molecular Formula:** $C_4H_4N_2O$
**Molecular Weight:** 96.088
**Accurate Mass:** 96.032363
**Percentage Composition:** C 50.00%; H 4.20%; N 29.15%; O 16.65%
**Melting Point:** Mp 38-39°
**Boiling Point:** $Bp_4$ 138-140°

>>**Derivative:** 1,2-Dioxide

**CAS Registry Number:** 19194-87-7
**Molecular Formula:** $C_4H_4N_2O_2$
**Molecular Weight:** 112.088
**Accurate Mass:** 112.027278
**Percentage Composition:** C 42.86%; H 3.60%; N 24.99%; O 28.55%
**Physical Description:** Needles
**Melting Point:** Mp 222 dec.°

**References:**